

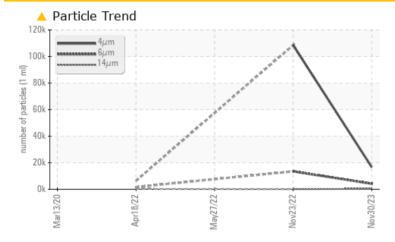
## **PROBLEM SUMMARY**

KAESER ASD 40ST 6186854 (S/N 4460)

Compressor

### KAESER SIGMA (OEM) S-460 (--- GAL)

### COMPONENT CONDITION SUMMARY



### RECOMMENDATION

The filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

PROBLEMATIC TE	ST RESULTS			
Sample Status		ABNORMA	L ABNORMAL	ABNORMAL
Particles >6µm	ASTM D7647 >	▶1300 <b>▲ 4196</b>	<b>1</b> 3487	
Particles >14µm	ASTM D7647 >	•80 <b>▲ 419</b>	41	
Particles >21µm	ASTM D7647 >	20 <b>A 122</b>	8	
Oil Cleanliness	ISO 4406 (c) >	/17/13 🔺 21/19/16	🔺 24/21/13	

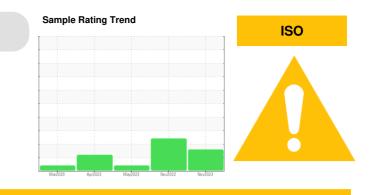
Customer Id: METGRETX Sample No.: KCPA011332 Lab Number: 06026446 Test Package: IND 2



To manage this report scan the QR code

*To discuss the diagnosis or test data:* Jonathan Hester +1 919-379-4092 x4092 <u>jhester@wearcheckusa.com</u>

*To change component or sample information:* Customer Service +1 1-800-237-1369 <u>customerservice@wearcheck.com</u>



There are no recommended actions for this sample.

### **HISTORICAL DIAGNOSIS**

### 23 Nov 2022 Diag: Jonathan Hester



### Oil and filter change at the time of sampling has been noted. We recommend an early resample in 500 hours to monitor this condition.All component wear rates are normal. There is a high amount of silt (particulates < 14 microns in size) present in the oil. There is a light concentration of water present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

### 27 May 2022 Diag: Jonathan Hester



We recommend you service the filters on this component. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample.All component wear rates are normal. Moderate concentration of visible dirt/debris present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service. Chlorine level is 0.0ppm.



view repor



### 18 Apr 2022 Diag: Doug Bogart

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.All component wear rates are normal. There is a high amount of particulates present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



Report Id: METGRETX [WUSCAR] 06026446 (Generated: 12/08/2023 06:46:09) Rev: 1



# **OIL ANALYSIS REPORT**

# KAESER ASD 40ST 6186854 (S/N 4460)

**Compressor** Fluid

KAESER SIGMA (OEM) S-460 (--- GAL)

### DIAGNOSIS

### Recommendation

The filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

### Wear

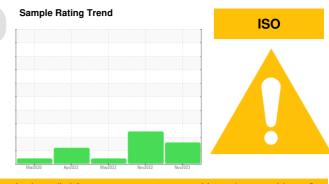
All component wear rates are normal.

### Contamination

There is a high amount of particulates present in the oil.

### Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

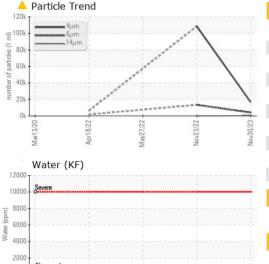


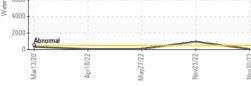
SAMPLE INFORM	<b>IATION</b>	method	limit/base	current	history1	history2
Sample Number		Client Info		KCPA011332	KCP52148	KCP16701
Sample Date		Client Info		30 Nov 2023	23 Nov 2022	27 May 2022
Machine Age	hrs	Client Info		52580	43586	39266
Oil Age	hrs	Client Info		0	5254	934
Oil Changed		Client Info		N/A	Changed	Not Changd
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	0	3	<1
Chromium	ppm	ASTM D5185m	>10	0	0	0
Nickel	ppm	ASTM D5185m	>3	0	0	0
Titanium	ppm	ASTM D5185m	>3	0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	<1
Aluminum	ppm	ASTM D5185m	>10	0	<1	2
Lead	ppm	ASTM D5185m	>10	0	0	<1
Copper	ppm	ASTM D5185m	>50	3	5	10
Tin	ppm	ASTM D5185m	>10	0	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m	90	0	0	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		<1	0	0
Magnesium	ppm	ASTM D5185m	90	0	1	<1
Calcium	ppm	ASTM D5185m	2	0	0	0
Phosphorus	ppm	ASTM D5185m		2	22	2
Zinc	ppm	ASTM D5185m		0	3	0
Sulfur	ppm	ASTM D5185m		9257	13064	16540
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	0	<1	<1
Sodium	ppm	ASTM D5185m		1	<1	2
Potassium	ppm	ASTM D5185m	>20	0	0	0
Water	%	ASTM D6304	>0.05	0.005	▲ 0.097	0.007
ppm Water	ppm	ASTM D6304	>500	54	<b>9</b> 70	77.0
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		16688	108524	
Particles >6µm		ASTM D7647	>1300	<u> </u>	<u> </u>	
Particles >14µm		ASTM D7647	>80	<b>419</b>	41	
Particles >21µm		ASTM D7647	>20	<u> </u>	8	
Particles >38µm		ASTM D7647	>4	3	0	
Particles >71µm		ASTM D7647	>3	0	0	
Oil Cleanliness		ISO 4406 (c)	>/17/13	<b>A</b> 21/19/16	▲ 24/21/13	
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.4	0.38	0.43	0.41

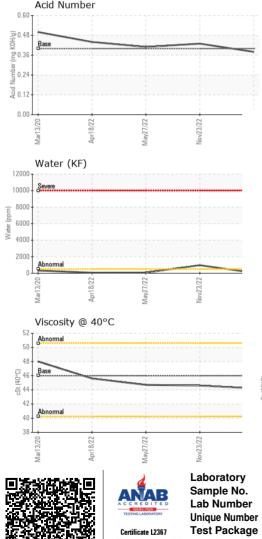
Contact/Location: SERVICE MANAGER ? - METGRETX



# **OIL ANALYSIS REPORT**

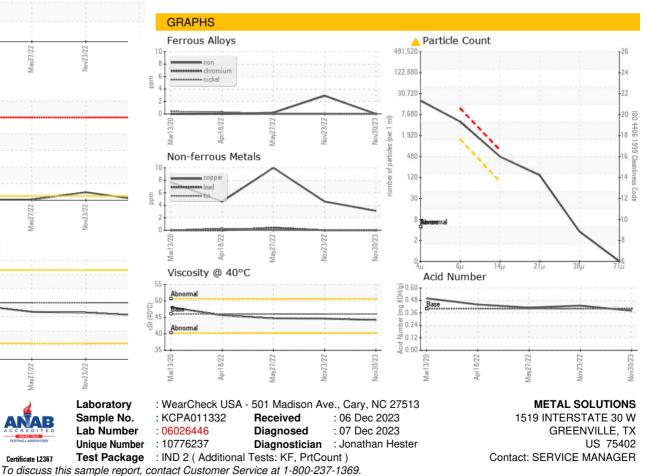






VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	LIGHT	LIGHT	A MODER
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.05	NEG	0.2%	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	46	44.2	44.6	44.7
SAMPLE IMAGES	S	method	limit/base	current	history1	history2
Color						

Bottom



\* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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